

ROTATIONAL CAPACITY TEST

Long Bolt Procedure

Procedure is required by Article 2408.39 and further described in Materials IM 453.06B. (Photos taken by Bill Burns, Iowa DOT.)

REQUIRED MATERIAL:

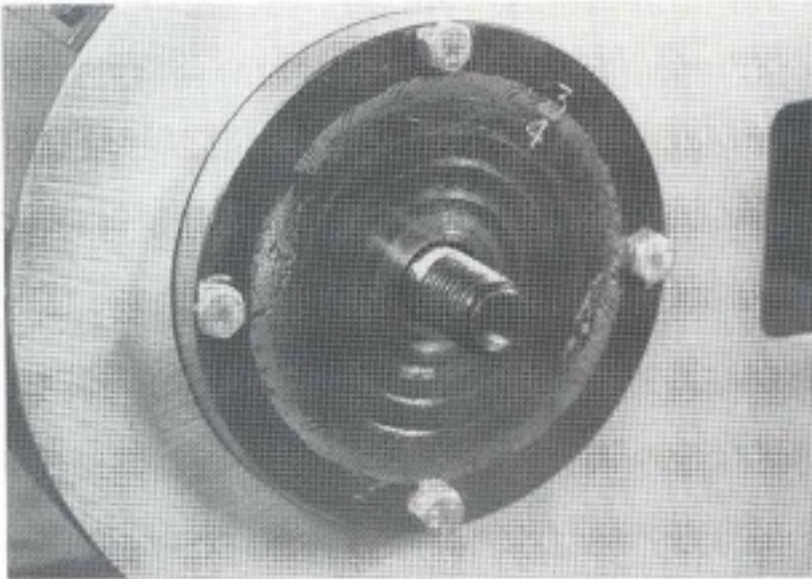
- Calibrated Tension Measuring Device
- Torque Wrench and Spud Wrench
- Washers and/or Shims
- Fasteners from same R-C Lot number

STEP 1.



Mark the 3rd through 5th full threads from the shank of the bolt.

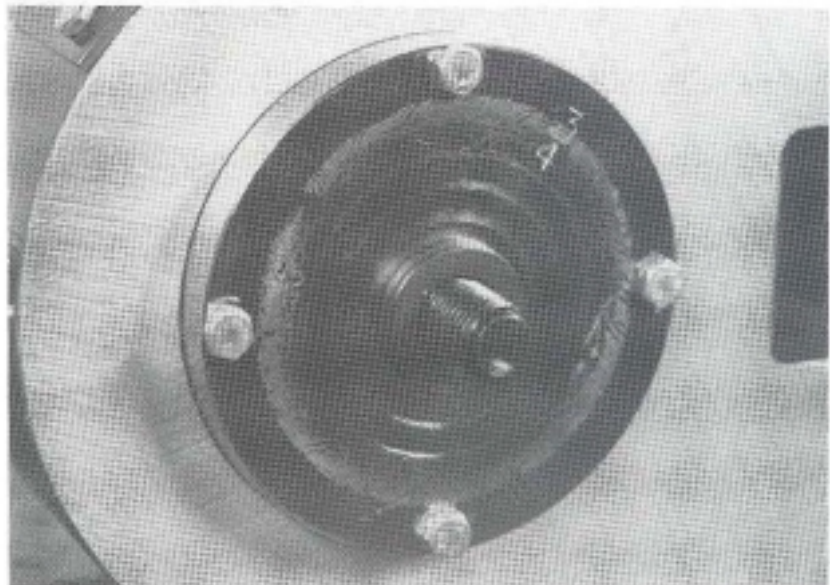
STEP 2.



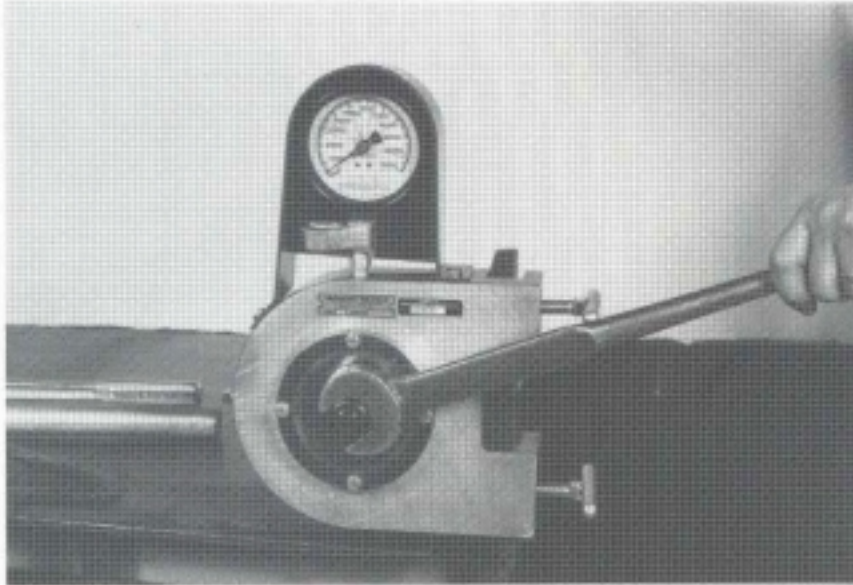
Install bolt into
the Skidmore.

STEP 3.

Install the required
number of washers
and/or shims to just
cover the 3rd, but
not more than the
5th thread. (As
marked in Step 1.
(Must have 1 washer
under the nut.)



STEP 4.



**Tighten nut to
Snug Tight. (IM
453, Table A-1)**

STEP 5.



**Match-mark
the bolt tip,
nut, and base
plate.**

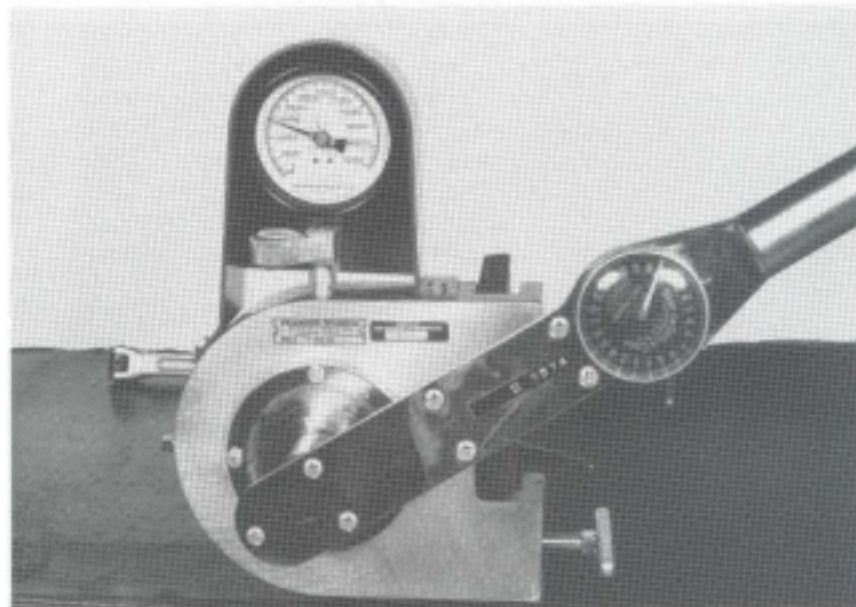
STEP 6.



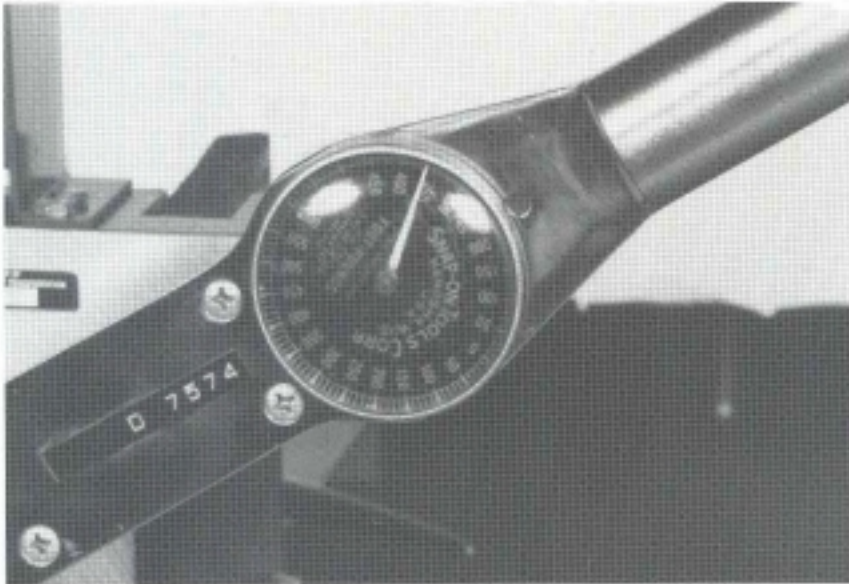
"Zero" torque
wrench.

STEP 7.

Tension bolt to
at-least value
given in IM 453,
Table A-2.



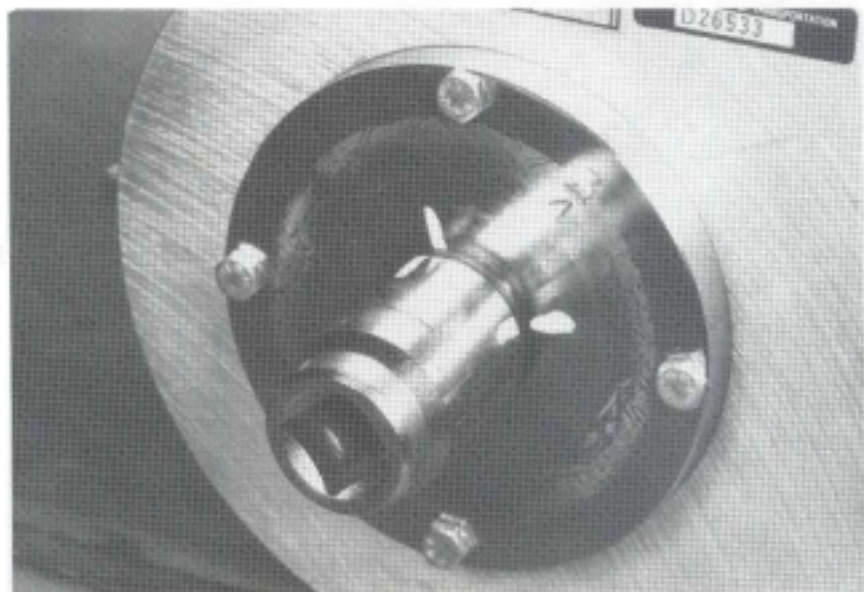
STEP 8.



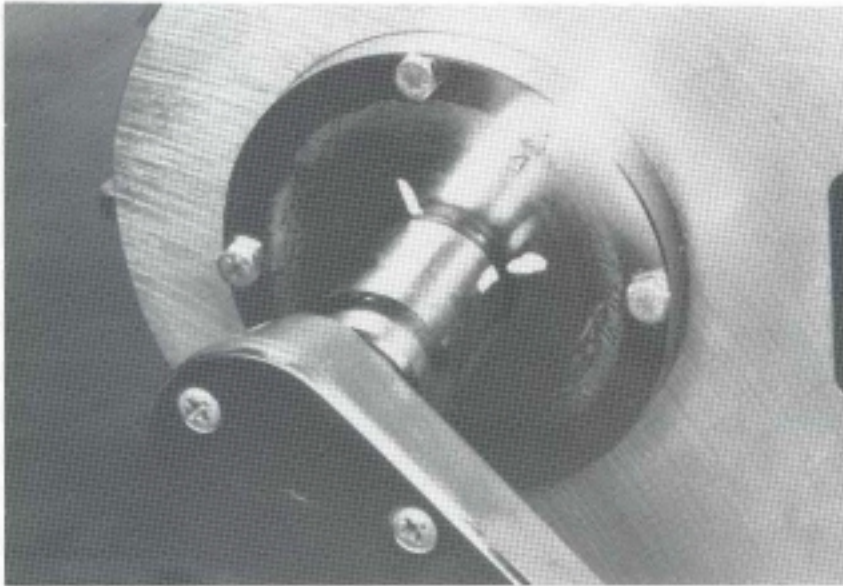
Record torque
tension from
Step 7 on R-C
Worksheet.

STEP 9.

Match-mark socket
to base plate.
(Use Turn-of-Nut
rotation amount.)
IM453, Table A-3



STEP 10.



Rotate nut the required Turn-of-Nut amount. (IM 453, Table A-3.)

STEP 11.

Record tension on R-C Worksheet. Must be equal to or greater than value in IM 453, Table A-4.

